

8. A computer aided map location system (CAMLS) for assisting a user in reading and using a printed map comprising:

at least one printed map corresponding to a selected geographical area, said printed map depicting surface features at a desired level of detail, said printed map comprising grid lines substantially parallel with coordinate lines of a selected geographical coordinate system, said grid lines defining boundary lines of printed map grid quadrangles identified by printed map grid quadrangle names;

a first computer means having an output, said first computer means being programmed to identify selected grid quadrangles by selected grid quadrangle names at said output for correlation by a system user with said printed map grid quadrangles;

and at least one database storable on a memory device and readable by said first computer means, said database including selected geographical coordinate locatable objects (loc/objects) identified by geographical coordinate location, said first computer means being programmed to transmit grid quadrangle names of grid quadrangle locations of one or more specific selected loc/objects in response to user queries for user correlation with said printed map grid quadrangles;

a second computer means at a location remote from said first computer means, said second computer means comprising at least one database of information about loc/objects;

and a data communications link between said first computer means and said second computer means.

9. The CAMLS as claimed in claim 8 wherein said second computer means is located at a location remote from said first computer means, said second computer means comprising a loc/object information service bureau;

and said CAMLS includes a data communications link between said first computer means and said second computer means.

10. A computer aided map location system (CAMLS) for assisting a user in map reading and map use comprising:

a first computer means having a display, said first computer means being programmed to display on said display selected display grid quadrangles identified by first display grid quadrangle names;

at least one database of selected geographical-coordinate-locatable objects (loc/objects) storable on a memory device and readable by said first computer means, said selected loc/objects identified by geographical coordinate location in said selected geographical coordinate system, said first computer means being programmed to display on said display locations of one or more of said selected loc/objects in said display grid quadrangles;

a second computer means having an output programmed to indicate second grid quadrangles names for user correlation with corresponding first display grid quadrangle names.

11. The CAMLS as claimed in claim 10 further comprising at least one printed map corresponding to a selected geographical area, said printed map depicting surface features at a particular level of detail, said printed map comprising grid lines substantially parallel with coordinate lines of a selected geographical coordinate system, said grid lines defining boundary lines of printed map grid quadrangles identified by printed map grid quadrangle names corresponding to said first display grid quadrangle names.

12. The CAMLS as claimed in claim 10 further comprising a data communications link between said first computer means and said second computer means.

13. The CAMLS as claimed in claim 12 wherein said second computer means is located at a location remote from said first computer means, said second computer means having at least one database of loc/objects, and said CAMLS includes a data communications link between said first computer means and said second computer means.

14. The CAMLS as claimed in claim 13 wherein said data communications link permits a CAMLS user to obtain information regarding said loc/objects and waypoints and to relate positions of said loc/objects and said waypoints to said display grid quadrangles.

15. The CAMLS as claimed in claim 10 further comprising locating means couplable to said first computer means, to said second computer means, or to both.

16. The CAMLS as claimed in claim 15 wherein said locating means is a Global Positioning System (GPS) receiver.

17. The CAMLS as claimed in claim 15 further comprising a data communications link between said first computer means and said second computer means.

18. The CAMLS as claimed in claim 17 wherein said second computer means is located at a location remote from said first computer means, said second computer means having at least one database of loc/objects, and said CAMLS includes a data communications link between said first computer means and said second computer means.

19. The CAMLS as claimed in claim 17 further comprising at least one printed map corresponding to a selected geographical area, said printed map depicting surface features at a particular level of detail, said printed map comprising grid lines substantially parallel with coordinate lines of a selected geographical coordinate system, said grid lines defining boundary lines of printed map grid quadrangles identified by printed map grid quadrangle names corresponding to said first display grid quadrangle names.

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